

1/5

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GmmoriAe .....CTACGG GTAACATCTT TATTAGTTAT
GmmoriAc .....GCT TTGTCTACGG GTAACATCTT TATTAGTTAT

GmmoriAe CGTAAAATAA CAGATTGTAG AAATGAAGTT TACAGGAATA TTCTTCATAA
GmmoriAc CGTAAAATAA CAGATTGTAG AAATGAATTT TACAGGAATA TTCTTCATGA

GmmoriAe TTATGGCGAT CATTGCCCTC TTTATAGGGT CAAATGAAGC GGCGCCTAAA
GmmoriAc TTATGGCGAT CATTGCCCTC TTTATAGGGT CAAATGAAGC GGCGCCTAAA

GmmoriAe GTCAATGTTA ATGCCATTAA GAAGGGAGGA AAGGCCATAG GAAAAGGATT
GmmoriAc GTCAATGTTA ATGCCATTAA GAAGGGAGGA AAGGCCATAG GAAAAGGATT

GmmoriAe TAAAGTAATC AGTGCGGCGA GTACAGCGCA TGACGTCTAT GAACACATTA
GmmoriAc TAAAGTAATC AGTGCGGCGA GTACAGCGCA TGACGTCTAT GAACACATTA

GmmoriAe AAAACAGAAG GCACTAATAA AACCAAAAAAT AATTATTTAT TTTATAAGGT
GmmoriAc AAAACAGAAG GCACTAATAG AACCAAAAAAT AATCATTTAT TTTATAAGGT

GmmoriAe AATTTTAAGA CATATAATGT ATGTTGCAA TTTATTAAGTG AAATAAAATA
GmmoriAc AATTTTAAGA CATATAATGA ATGTTGCAA TTTATTAAGTG GAATAAAATA

GmmoriAe TAAATATTT TTTGTT
GmmoriAc TAAATATTT TTTGTT

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Figure 1

	1		50
GmmoriAe	MKFTGIFFI	MAIIALFIGS NEAAPKVVN AIKKGGAIG KGFKVISAAS	
GmmoriAc	M <u>N</u> FTGIF <u>F</u> MI	MAIIALFIGS NEAAPKVVN AIKKGGAIG KGFKVISAAS	
	51	64	
GmmoriAe	TAHDVYEH	IK NRRH*	
GmmoriAc	TAHDVYEH	IK NRRH*	

Figure 2

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1  GGTAACATCTTTATTAGTTATCGTAAAATAACAGATTGTAGAAATGAAGTTTACAGGAAT  60
                                     MetLysPheThrGlyIl
61  ATTCTTCATAATTATGGCGATCATTGCCCTCTTTATAGGGTCAAATGAAGCGGCGCCTAA 120
    ePhePheIleIleMetAlaIleIleAlaLeuPheIleGlySerAsnGluAlaAlaProLy
121  AGTCAATGTTAATGCCATTAAGAAGGGAGGAAAGGCCATAGGAAAAGGATTAAAGTAAT 180
    sValAsnValAsnAlaIleLysLysGlyGlyLysAlaIleGlyLysGlyPheLysValIl
181  CAGTGC GCGAGTACAGCGCATGACGTCTATGAACACATTAAAAACAGAAGGCACTAATA 240
    eSerAlaAlaSerThrAlaHisAspValTyrGluHisIleLysAsnArgArgHis***
241  AAACCAAAAATAATTATTTATTTTATAAGGTAATTTTAAGACATATAATGTATGTTGCAA 300

301  ATTATTAAGTGAAATAAAATATAAAATATTTTTTGT

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Figure 3

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1  GTTATTTTTTAAAGATCAAAGCGTAATTAATTCATTGTGCTGTGTCTGAAAGGAACAAAA  60
                                     M
61  TGAGATTGTCCATAATATTGGTCGTTGTGATGATGGTGATGGCTATGTTTGTGAGCAGTG 120
    etArgLeuSerIleIleLeuValValValMetMetValMetAlaMetPheValSerSerG
121  GAGATGCGGCGCCTGGAAAAATTCCTGTGAAAGCGATTAAAAAAGGAGGGCAAATTATTG 180
    lyAspAlaAlaProGlyLysIleProValLysAlaIleLysLysGlyGlyGlnIleIleG
181  GTAAAGCTCTGCGTGGAATCAATATAGCGAGTACTGCACATGACATAATTAGCCAGTTCA 240
    lyLysAlaLeuArgGlyIleAsnIleAlaSerThrAlaHisAspIleIleSerGlnPheL
241  AACCGAAAAAGAAGAAAAACCATTTGAGTATTTAATAAAAAATCGTTCAATAATATATTTA 300
    ysProLysLysLysLysAsnHis***
301  ATAATAATAATAAATTTTACTTATATTACTATAATATAATTAATATTTTAAATTGTGCCA 360
361  TTTTAGTTTTATAAATTATATTAAGTATTAATTTTATAATTAATAAAAAAGCTTAAATAT

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Figure 4

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1 GTAACAGTACCACCGTGACAGTCGCAGTAGTTAGTCTTCAATCTTAGTGAAAACCTCGC

61 TTCTCTTTATCAACCATGAAGCTGACCGGTCTATTTTTCATGATCATGGCGATGCTCGCC
 MetLysLeuThrGlyLeuPhePheMetIleMetAlaMetLeuAla
 Val

121 CTGTTTGTGGCGCTGGTCAAGCCGACCCTAAGGTGCCCATTGGCGCCATCAAGAAGGGT
 LeuPheValGlyAlaGlyGlnAlaAspProLysValProIleGlyAlaIleLysLysGly

181 GGCAAAATTATTAAAAAAGGTCTTGGTGTAATTGGTGCCGCTGGTACAGCGCATGAAGTA
 GlyLysIleIleLysLysGlyLeuGlyValIleGlyAlaAlaGlyThrAlaHisGluVal

241 TATAGCCACGTCAAGAACAGGCATTAGATTCTTGAAGAATATATAGTATATAATTATGAA
 TyrSerHisValLysAsnArgHis***

301 GTACTATCCTTTTGTATATGTGACTAAGTGCATAATGTAAAGTCAAATGAAATATATATT

361 ATTTATCCTCGTGCC

Figure 5

1 ACTTCATTGTGTACAGTTGCAGGACTTAATACTTAGTGAACTACTTACTCCTCGTTACCA

61 ACCATGAAGCTGACCGGTCTATTTCTCATGATCATGGCGGTGCTCGCGCTGTTTGTGGC
 MetLysLeuThrGlyLeuPheLeuMetIleMetAlaValLeuAlaLeuPheValGly

121 GCTGGTCAAGCCGACCCTAAGGTGCCCATTGGCGCTATCAAGAAGGGCGGCAAAATTATT
 AlaGlyGlnAlaAspProLysValProIleGlyAlaIleLysLysGlyGlyLysIleIle

181 AAAAAGGGTCTAGGTGTGCTTGGCGCCGCGGGCACAGCGCACGAAGTGTACAACCACGTT
 LysLysGlyLeuGlyValLeuGlyAlaAlaGlyThrAlaHisGluValTyrAsnHisVal

241 AGGAACAGGCAGTAACGTCATGCGTGATTGTTGTACATACAGTACTTACAATACGATTTG
 ArgAsnArgGln***

301 TCTTGGCTGTGATATATCTTTAGATAAAATTAATTTATAATACCACATACTTATTAGTAA

361 AACTCAAATATATTGATTATAGATACATTAATAAAATATTAATTATTACAATATTTTGT

421 TTTATGTACAATGCGAATAGATTCTACCCCTCTGCCTCGTGCC

Figure 6

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GmmoriC1  GTAACAGTACCACCGTGACAGTCGCAGTAGTTAGTCTTCAATCTTAGTGAAAACTTCGC  60
GmmoriC2  .....ACTTCATTGTGTACAGTTGCAGGACTTAATA.....CTTAGTGAACTACTTAC  48

GmmoriC1  TTCTCTTTATCAACCATGAAGCTGACCGGTCTATTTTTTCATGATCATGGCGATGCTCGCC  120
GmmoriC2  TCCTCGTTACCAACCATGAAGCTGACCGGTCTATTTCTCATGATCATGGCGGTGCTCGCG  108

GmmoriC1  CTGTTTGTTGGCGCTGGTCAAGCCGACCCTAAGGTGCCCATTGGCGCCATCAAGAAGGGT  180
GmmoriC2  CTGTTTGTTGGCGCTGGTCAAGCCGACCCTAAGGTGCCCATTGGCGCTATCAAGAAGGGC  168

GmmoriC1  GGCAAAATTATTAAAAAAGGTCTTGGTGTAATTGGTGCCGCTGGTACAGCGCATGAAGTA  240
GmmoriC2  GGCAAAATTATTAAAAAAGGTCTAGGTGTGCTTGGCGCCGCGGGCACAGCGCACGAAGTG  228

GmmoriC1  TATAGCCACGTCAAGAACAGGCATTAGATTCTTGAAGAATATATAGTATATA.ATTA..T  297
GmmoriC2  TACAACCACGTTAGGAACAGGCAGTAACGCATGCGTGAT.TGTTGTACATACAGTACTT  287

GmmoriC1  GAAGTACTATCC.TTTTGTATATGTGAC.TAAGTGCATAATGTAAAGTCAAATGAAATAT  355
GmmoriC2  ACAATACGATTTGTCTTGGCTGTGATATATCTTTAGATAAATTAATTTATAATACCACAT  347

GmmoriC1  A..TATTATTTA..TCCTCGTGCC  375
GmmoriC2  ACTTATTAGTAAAAATACTCAAATA.....  462

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Figure 7

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GmmoriC1  MKLTGLFFMIMAMLALFVGAGQADPKVPIGAIKKGGKIIKKGLGVIGAAG
GmmoriC2  MKLTGLFLMIMAVLALFVGAGQADPKVPIGAIKKGGKIIKKGLGVLGAAG

GmmoriC1  TAHEVYSHVKNRH
GmmoriC2  TAHEVYNHVRNRQ

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Figure 8

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Bmmor  MNILKFFVFVIVAMSLVSCS-TAAPAKIPIKAIKTVGKAVGKGLRAINIASTANDVFNFLKPKKKRKH-
Hpmor  -----AMSLVSCS-TAAPAKIPIKAIKTVGKAVGKGLRAINIASTANDVFNFLKPKKKRKH-
Hvvir  -----GKIPIGAIAKKAGKAIGKGLRAVNIASTAHVYTFKPKKR-H-
Slmor  MKLTKVFVILIVVVALLVPS-EAAPGKIPVKAIAKKAGAAIGKGLRAINIASTAHVYSFFKPKHKKKH
Semor  MKLTKVFVIVIVVVALLVPS-EAAPGKIPVKAIAKKAGTAIGKGLRAINIASTAHVYSFFKPKHKKKH
Msmor  MKLTSLFIFVIVALSLFSSTDAAPGKIPVKAIAKQAGKVIKGLRAINIAGTTHDVVSFFRPKHHKH-
CiPl647 -----RKIPVEAIAKKG---ASRAWRALDLASTAYDIASIFN--RKRE-
CiPl648 -----GKIPVEALKKGAKVAGRAWRALDLASTAYDIAHLFD--RKRN-
CiPl646 -----GKIPINAIRKGAKAVGHGLRALNIASTAHDIASAFH--RKRKH
GmmoriB MRLSIILVVMMVMAMFVSSGDAAPGKIPVKAIAKKGGQIIGKALRGINIASTAHDIISQFKPKKKKNH
GmmoriC1 MKLTGLFFMIMAMLALFVGAGQADP-KVPIGAIAKKGGKI I KKGLGVIGAAGTAHEVYSHVKNRH----
GmmoriC2 MKLTGLFLMIMAVLALFVGAGQADP-KVPIGAIAKKGGKI I KKGLGVIGAAGTAHEVYNHVRNRQ----
BmmorX  MYFLKYFIVVLVALSLMICSGQADP-KIPVKSLKGGKVIKAGFKVLTAAGTAHEVYSHVRNRGNQG-
GmmoriA MKFTGIFFIIMAIIALFIGSNEAAP-KVNVNAIAKKGGKAIGKGFKVISAASTAHDVYEHKNNRH---

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Figure 9